Contents Volume 156

Volume 157, Nos. 1-4, 14 April 1998

A study of the stability of subcycling algorithms in structural dynamics	
W.J.T. Daniel	1
Numerical aspects for free vibration of thick plates. Part I: Formulation and verification C.W. Lim, K.M. Liew and S. Kitipornchai	15
Numerical aspects for free vibration of thick plates. Part II: Numerical efficiency and vibration frequencies	
C.W. Lim, S. Kitipornchai and K.M. Liew	31
Structural instability analyses based on generalised path-following A. Eriksson	45
Co-rotational flat facet triangular elements for shell instability analyses C. Pacoste	75
Approximation of shell geometry for nonlinear analysis P. Destuynder and M. Salaün	111
Two-dimensional Lagrangian method for elastic-plastic flow W.H. Lee	149
An exact symplectic geometry solution for the static and dynamic analysis of Reissner plates Z. Guiping	171
Application of an automatic differentiation method to a 2D Navier-Stokes CFD code H. Hu	179
Comparison of some finite element methods for solving the diffusion-convection-reaction equation R. Codina	185
Implementation and adaptivity of a space-time finite element method for structural dynamics X.D. Li and NE. Wiberg	211
Variationally derived 3-field finite element formulations for quasistatic poroelastic analysis of hydrated biological tissues	221
M.E. Levenston, E.H. Frank and A.J. Grodzinsky	231
The finite deformation theory for beam, plate and shell structures. Part II. The kinematic model and the Green-Lagrangian strains	
M. Li	247

A consistent finite element formulation for linear buckling analysis of spatial beams 259 K.M. Hsiao, R.T. Yang and W.Y. Lin Nonlinear analysis based on homogeneous incremental systems 277 M. Kowalczyk Conforming spectral approximations for non-conforming domain decompositions A. Karageorghis and S. Sivaloganathan 299 Structural optimization using evolution strategies and neural networks 309 M. Papadrakakis, N.D. Lagaros and Y. Tsompanakis Scattering of antiplane impact waves by cracks in a layered elastic solid 335 S.W. Liu, J.C. Sung and M.S. Lin A posteriori error estimation and adaptivity for linear elasticity using the reciprocal theorem F. Cirak and E. Ramm 351 Optimal damper positioning in beams for minimum dynamic compliance I. Takewaki 363 Analysis of dynamic response of prey-predator system with nonliner diffusion-reaction equations by using superposition Y. Ding and M. Kawahara 375 Author Index of Volume 156 389 Subject Index of Volume 156 391 Instructions to authors 395 Contents Volume 156 397

